

BRITISH COLUMBIA

Glacier National Park preserves a 521-square-mile area of the Selkirk Range, one of the four inte-rior ranges of British Columbia. The Selkirk and its related ranges—the Purcell, the Monashee and the Cariboo - are quite distinct from the Bocky Moun tains, which are to the east, separated from the Interior Ranges by the Rocky Mountain Trench. through which the Kootenay, Columbia, Canoe and Fraser Rivers flow. River valleys extending south and southwest define the four Interior Ranges. The Beaver River valley, near the eastern boundary of Glacier National Park, forms the dividing line between the Purcell Range and the

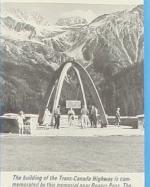
The park is both on the main line of the C.P.R and on the Trans-Canada Highway. Since there is no scheduled stop at Glacier, rail passengers who wish to visit Glacier have to detrain either at Field in Yoho National Park or at the city of Revelstoke, about 30 miles from the park's western entrance. Most persons see Glacier from the Trans-Canada Highway which passes through the central part of the park and is open all year. Other National Parks in the vicinity are Mount Revelstoke near Reve stoke and Yoho and Banff National Parks which are in the Rockies to the east.

To orient yourself in Glacier, refer to the map on the reverse side of this folder. This map identifies the main features of the park for your information

PHRPOSE

Glacier National Park was established to pre serve an unique mountain area complete with all its natural features in a natural state for the appreciative use of the public.

is one of the 18 National Parks of Canada which have a total area of 29,000 square miles. All National Parks are administered by the National and Historic Parks Branch, Department of Indian Affairs and Northern Development and are exclusively under the jurisdiction of the federal govern



memorated by this menorial near Rogers Pass. The two arches of Douglas Fir span a map of Canada on mosaic tile while the three low walls surrounding the map symbolize the Arctic, Pacific and Atlantic

GEOLOGICAL FEATURES

The Selkrik Mountains were formed many tens of millions of years before the Rockies, which are about 75 millions of years old. Thus they have been exposed to weathering processes longer and much of the softer rocks has crumbled away, leaving the higher levels of the mountains composed of more solid rock. In appearance the peaks of the Selkriks are narrower and more jagged than the Rockles. The many changes to which the rocks have been subjected in the millenia and the complete lack of fossils make it extremely difficult to reconstruct the history of these mountains. Geologists have identified two main groups of rocks—the Horsethief Creek group, probably Precambrian, and the Hamill group, perhaps Cambrian (550 million years old).

The Horsethief Creek rocks, in the eastern part of the park, consist of slate, hard quartzite, conglo-merate, limestone and a finity material known as breccias. The younger Hamill rocks, found else-

While the rocks hide well the story of their origin, the effects of the great flowing sheets of ice that give the park its name are obvious everywhere. The Illecillewaet Valley through which the high-way and the railroad pass was at one time filled with glacial ice which was deep enough to carve the angular sides of Mount Sir Donald's 10 818 ft

There are more than 100 glaciers in the park. Two are obvious and easily reached by trail—the Illecillewaet and the Asulkan. From the site of the old Glacier House it is a two-mile walk to Glacier Crest, a point which overlooks the Illecillewaet Glacier and Icefield, and a six-mile walk to the shoulder of Mount Abbott where the Asulkan Glacier can be observed. Although scientific observations have not been carried out regularly on all glaciers of the Selkirks, it is probable that all the all glaciers of the Selkirks, It is probable that all the glaciers are receding, i.e., the slight annual floward flow of the glaciers does not compensate for the much greater loss of volume of the ice through melting. The Illecillewaet Glacier was first studied in 1887 when it was about 3,000 feet long and known as the Great Glacier of the Selkirks. Today it is a pathetic relic of the Ice Age, barely 1,000 feet long and dwindling away at the rate of about 50 feet a year. The Asulkan Glacier is even smaller.

An excellent geological guidebook to both Glacier and Mount Revelstoke National Park priced at \$1.50, is available by mail from the Queen's Printer, Ottawa, and may be purchased at the park administration office at Revelstoke.

FLORA

During the railroad construction, much original forest was destroyed by fire. However, the climate of Glacier, particularly its heavy precipitation, encourages luxuriant growth so that below timber-

line the underbrush is impenetrable.

In the valleys there is some black cottonwood but as you climb higher the forest composition is mainly western and mountain hemlock. Engelmann spruce and subalpine fir, with some giant cedar. The alpine fir becomes dominant as timberline is

approached.

The ground cover is creeping raspberry, dwarf dogwood, many kinds of ferns and small herba-ceous plants such as the saxifrages and the ceous plants such as the saxirages and the queen's cup. Where more sunlight filters through the forest canopy, hundreds of white-flowered hododendrons grow. This is the most common wild flower of the Selkirks. Also in the forests are very dense thickets of immature evergreens, blue-berry, currant and thimbleberry bushes and devil's

Wild flowers include the avalanche lily, western pasque-flower, Indian paintbrush, blue lupine, mountain marigold, wild heliotrope, yellow arnica,

red mountain and white moss heather.

The heavy snowfall of Glacier National Park, averaging 342 inches, does not make the park an ideal range for large mammals and only rarely will a visitor sight anything larger than a ground squirrel. grizzly bears uses the park as a refuge. The grizzlies are shy and seldom appear near the highway sometimes they are seen in isolated areas of the park. The usual small mountain animals are present, squirrel, the marmot, the pika and the chipmunk.

Although a number of species have been observed in Glacier, the bird life is not nume and remains well hidden from observation in the heavy undergrowth. Only during August are birds evident in the park. The Steller's jay is fairly com mon and other birds include the hermit thrush nut-backed chickadee.

FISHING

Glacier is not a good place for fishing because the streams are filled with glacial silt and there are no lakes in which a fish population can be supported. In late summer or early fall, Dolly Varden trout may be caught in the streams although they are never large. A \$2.00 fishing licence is required for use in the park; this can be obtained from a park warden.

HIKING

A fine network of trails, originally built by the C.P.R., leads to the Illecillewaet Glacier and to Asulkan Glacier. There are fine viewpoints from the ridge of Mount Abbott. About a mile east of Rogers Pass, a trail leads upward to the Hermit hut of the Alpine Club of Canada (open only to members of the A.C.C.). A few hundred feet above this hut is a beautiful alpland enclosed in a large natural ampitheatre. Trails lead up Bear and Cougar Creeks to Cougar Valley where the Caves of Cheons or the Nakimu Caves are located. The caves are closed to the public and entry is

Most of the trails that are used by the public involve relatively short hikes and it is not advisable

"A Climber's Guide to the Interior Ranges of British Columbia" by J. Monroe Thorington is the

For visitors who wish to rent accommodation, and gas station and is open the year round. In the winter, a small ski development with two rope should be directed to the Manager, Northlander Motor Lodge, Glacier National Park, B.C.

SEASONS

months so persons visiting the park should be

HOW YOU CAN HELP

going mountain climbing or on an overnight hike and report back to him on your return

Don't light wood fires except in the fireplaces provided for this purpose. Campfires must be completely extinguished before you leave a campsite or picnic area. If you see an unattended fire. extinguish it immediately and report it promptly to the first park employee you see. A forest fire could devastate the park and all its natural features so badly that it would take more than 100 years for its beauty to be restored by natural processes.

Dogs and cats may be brought into the park by their owners. Dogs should be kept on a leash in the park to prevent their annoying wild animals and

MOTOR LICENCE

All motor vehicles entering Glacier National Park must bear a park motor vehicle licence. This is sold at \$2, or \$3 if the vehicle is towing a trailer, at the entrance to the park and is valid for an unlimited number of entries into all National Parks for a 12month period. Licences purchased previously at Banff, Yoho and other National Parks where a \$2 licence is required are honoured at Glacier.

Possession of a park motor vehicle licence is required for all vehicles passing through Glacier National Park even though the vehicles are being driven along the Trans-Canada Highway to a destination outside the National Parks. Information on fees payable by the drivers of buses and trucks may be obtained from the park gateway attendant

AVALANCHE CONTROL

One of the unpleasant natural features of Glacier National Park is its avalanches which in winter cascade tons of snow down the steep mountain slopes which rise on each side of Rogers Pass. Although you probably will never see an avalanche in Glacier, their tremendous power can be imagined when you look up from the highway at a slope that is scraped clean of all trees and shrubs or catch a glimpse of a tangled mound of trees, bushes, rock rubble and dirty snow on the road-

There are 74 avalanche paths threatening the Trans-Canada Highway in Glacier National Park. As you drive through the park, you will pass through six concrete snowsheds which protect the



Mount Catamount and its glacier are seen from the top of Baloo Pass

one of the snowsheds instead of piling its tons of break up the avalanche into a number of smaller

ince the Indians have left no artifacts in Glacier

weather conditions, its dense undergrowth and

The building of Glacier House, a comfortable lodge-like hotel of 36 rooms, followed a year after the C.P.R. was finished in 1885. From 1887 to 1925, this hotel had an international reputation and attracted most of the world's leading mountaineers, naturalists, and geographers who contheir climbs, explorations and writings. In its finest days. Glacier House was close to the tracks but due to the continual damage and loss of life by avalanches, the C.P.R. moved its route out of the pass by piercing the five-mile-long Connaugh Tunnel through Mount MacDonald in 1915. After that patronage declined and the hotel was closed of its foundations may still be seen near the Illecillewaet campground.

A railway town of 300 persons existed in Rogers Pass from 1885 to the time of the re-routing of the railway. This town apparently survived avalanches although the tracks on both sides were over-whelmed frequently. Most tragic of the avalanche accidents in Rogers Pass was the sudden death of 64 railway workers on March 10, 1910. While digging through one avalanche, the workers were trapped by another huge stream of snow which fell from the other side of Rogers Pass and died

After the closing of Glacier House, Glacier National Park was all but forgotten except by the hundred or so avid mountaineers who came to the park by train, transporting all their equipment and

The Nakimu Caves, a series of subterranean passages in Cougar Valley, were discovered by C. H. Deutschman in 1900 and, while Glacier House was fully operating, were developed as a sightseeing attraction by the C.P.R. In 1935 the caves were officially closed as a safety measure At present it is dangerous to enter the caves, ever with special equipment such as safety lights and ropes and visits to the caves are prohibited.

In 1962, the completion of the Golden-Revel-stoke section of the Trans-Canada forged the final link in a transcontinental highway spanning Canada from St. John's, Newfoundland, to Victoria, B.C. A memorial to this achievement was unveiled on Sept. 3, 1962, by Rt. Hon. John Diefenbaker, the Prime Minister of Canada, and is a popular stopping place for tourists, passing





On the Trans-Canada Highway via Rogers Pass On the Irans-Canada Highway via Rogers Pass to Connaught on the east of the divide, one passes through an alpine wonderland. To the west are the impressive peaks of Mt. Cheeps, Ursus Major, Ursus Minor, Mt. Grizzly, Sifton, Rogers, the Swiss Peaks and Mt. Tupper. To the south east are the giants of the Sir Donald Range including Sir Donald, Eagle Peak, Mt. Avalanche and Mt. Macdonald whose massive height overshadows the

conaid whose massive neight overshadows the pass.

The eastern section of the park, consisting of the watershed of the Beaver River and the Purcell Trench, is characterized by its more rounded contours and wide, timbered mountain benches. The Trans-Canada Highway extends up the valley as far as Connaught, and a good trail from Stoney Creek leads to the head of the Beaver and the Duncan Summit. Another follows Grizzly and Copperstain Creeks to the broad plateau of Bald Mountain The latter commands a superhysiew of Copperstain Creeks to the broad plateau of Bald Mountain. The latter commands a superb view of the Sir Donald, Dawson, Bishop and Purity Ranges to the west and south. The Spillimachene and Dogtoth Mountains can be seen to the east. Northward one can view a veritable sea of moun-tains which include such notable peaks as Mt. Sorcerer, Iconoclast, Nortlo: Mountain and many

more.
The Trans-Canada Highway also gives access to The Trans-Canada Highway also gives access to the western areas of the park, where trails lead to Flat Creek Pass, overlooking the valley of the In-commappleux River to the south and west and north to Bostock Creek summit and to Mountain

The following is a list of the principal trails in the park with their locations and length in miles:

NAKIMU CAVES AND From Glacier westerly to the Nakimu Caves and Upper Cougar Valley: 8 m.
From Rogers Pass to Alpine Club hut on Hermit HERMIT TRAIL.

mountain; 2 m. From Upper Couger Valley to Rogers Pass; 4 m. From Glacier to Marion Lake and shoulder of Mt. Abbott; 6 m. MOUNT ABBOTT ASHI KAN PASS GLACIER CREST

GREAT GLACIER

Mt. Abbott. 6 m.
Freen Glaier zooth along Auditan Brook: 7 m.
Freen Glaien Trail to point overleading the
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Form Glacer; to have a fifth ... SIR OONALD:

Donald; 3.5 m.
From Glacier to base of Mt. Avalanche; 5 m.
From Steney Creek south to Beaver—Duncan
summit and south boundary of park; 30 m.
From Steney Creek easterly via Gritzly and
Copperstain Creek, to Spillamachene Divide
and Bald Mountain; 12 m. AVAI ANCHE CREST GRIZZLY CREEK AND BALD MOUNTAIN:

And Sold Mountain; 12. m.

FLAT CREEK: From Flat Creek; 6 m.

BOSTOCK CREEK: From Flat Creek; 6 m.

BOSTOCK CREEK: From Flat Creek; 6 m.

HICOMAPPLEUX RIVER: From Flat Creek Parts and Jones Silek Creek

Sol Incompopleux River: From Flat Creek Pass, zowth along Silek Creek

Sol Incompopleux River and the zowth boundary

of park; 7 m.

MOUNTAIN CREEK: From Bostock Summit to Mountain Creek; 9 m.

Glacier National Park was established in 1886 and has a claim for the honour of being the oldest National Park in Canada since Banff was not en-National Park in Canada since Baint was not en larged and given official park status until 1887. It was administered as part of Yoho National Park until 1957 when Glacier and Mount Revelstoke were combined under the administration of a single superintendent whose headquarters is in Revelstoke. The official address of the park is: Superintendent, Glacier National Park, Revel-



Published under the authority of HON. ARTHUR LAING, P.C., M.P., B.S.A. Minister of Indian Affairs and Northern Developmen